AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the respective claims previously existing in this application.

- 1. (Currently amended) A device for mixing diluted fuel in a fuel cell; said device comprising:
- a fuel mixing chamber;
- a undiluted fuel inlet line for delivering substantially undiluted fuel into said mixing chamber;
- a bubbling line for bubbling a gas into said mixing chamber, wherein said bubbling line comprises a return air/water line from at least one of an anode and a cathode of said fuel cell; and
- a diluted fuel outlet line for transporting diluted fuel to an external fuel cell stack.
- (Original) The device of claim 1, wherein said undiluted fuel comprises substantially pure MeOH.
- 3. (Original) The device of claim 2, wherein said diluted fuel comprises at least partially diluted aqueous MeOH.
- 4. (Original) The device of claim 1, further comprising a sensor for determining fuel concentration is said mixing chamber.

- 5. (Original) The device of claim 4, wherein said sensor is responsive to MeOH concentration.
- 6. (Original) The device of claim 1, further comprising a gas permeable membrane.

7. (Currently amended) A method for mixing diluted fuel in a fuel cell device; said method comprising the steps of:

providing a fuel mixing chamber;

- providing a undiluted fuel inlet line for delivering substantially undiluted fuel into said mixing chamber;
- providing a bubbling line for bubbling a gas into said mixing chamber, wherein said bubbling line comprises a return air/water line from at least one of an anode and a cathode of said fuel cell; and
- providing a diluted fuel outlet line for transporting diluted fuel to an external fuel cell stack.
- 8. (Original) The method of claim 7, wherein said undiluted fuel comprises substantially pure MeOH.
- (Original) The method of claim 8, wherein said diluted fuel comprises at least partially diluted aqueous MeOH.
- 10. (Original) The method of claim 7, further comprising the step of providing a sensor for determining fuel concentration in said mixing chamber.
- 11. (Original) The method of claim 10, wherein said sensor is responsive to MeOH concentration.

- 12. (Original) The method of claim 7, further comprising the step of providing a gas permeable membrane.
- 13. (Original) The method of claim 7, further comprising the step of turbulently mixing said diluted fuel by bubbling gas into said mixing chamber.
- 14. (Original) The method of claim 7, further comprising the step of actuating delivery of undiluted fuel to said mixing chamber.
- 15. (Original) The method of claim 7, further comprising the step of terminating delivery of undiluted fuel to said mixing chamber.

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- 16. (Currently amended) A device for mixing diluted MeOH fuel in a DMFC; said device comprising:
- a fuel mixing chamber;
- a undiluted MeOH inlet line for delivering substantially undiluted MeOH into said mixing chamber;
- a bubbling line for bubbling air into said mixing chamber, wherein said bubbling line comprises a return air/water line from at least one-of-an anode-and a cathode of said DMFC;
- a diluted MeOH outlet line for transporting diluted fuel to an external fuel cell stack;
 and
- a sensor for determining MeOH concentration in said mixing chamber
- 17. (Original) The device of claim 16, further comprising a gas permeable membrane.